

The Knowledge Bank at The Ohio State University
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The Ohio State Engineer



November 1929

MEMBER OF ENGINEERING COLLEGE MAGAZINES ASSOCIATED

A NEW DESIGN BOX-HEADER BOILER

The new C-E Single-Seam Box-Header Boiler is a distinct advance in construction and design over ordinary box header practice.

In the new design —

The wrapper or butt strap joining the tube and hand hole sheets is —ELIMINATED.

ONE ROW OF RIVETS JOINS THE TUBE SHEET DIRECTLY TO THE HAND HOLE SHEET.

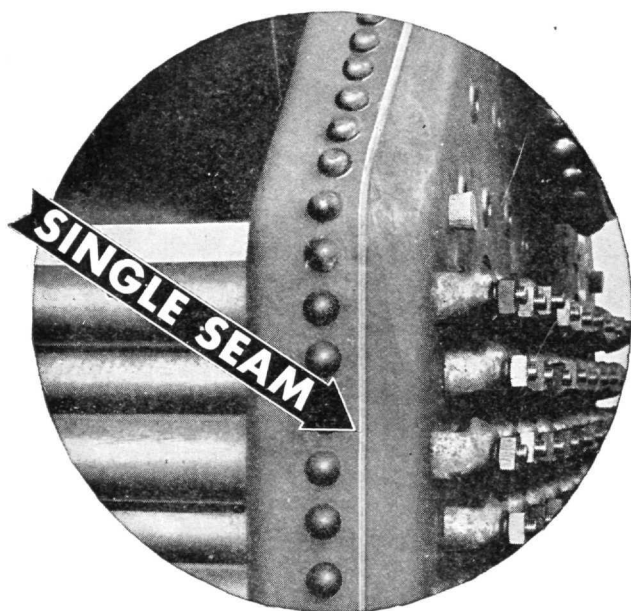
The row of rivets on the tube side of the wrapper strap is —ELIMINATED.

THERE IS ONLY ONE CAULKING EDGE and this faces the outside —making inspection easy and removing all rivets out of the hot gas and fire zones.

Three thicknesses of metal at the caulking joint at the ears are — REDUCED TO TWO THICKNESSES.

This new design provides an unusual factor of safety. For instance, in the standard unit sold for 160 lb. to 250 lb. working pressure, the header joint is adequate for a working pressure of 450 lb.

A careful inspection of this new boiler will convince you that the C-E Box-Header Boiler is a better Box-Header Boiler.

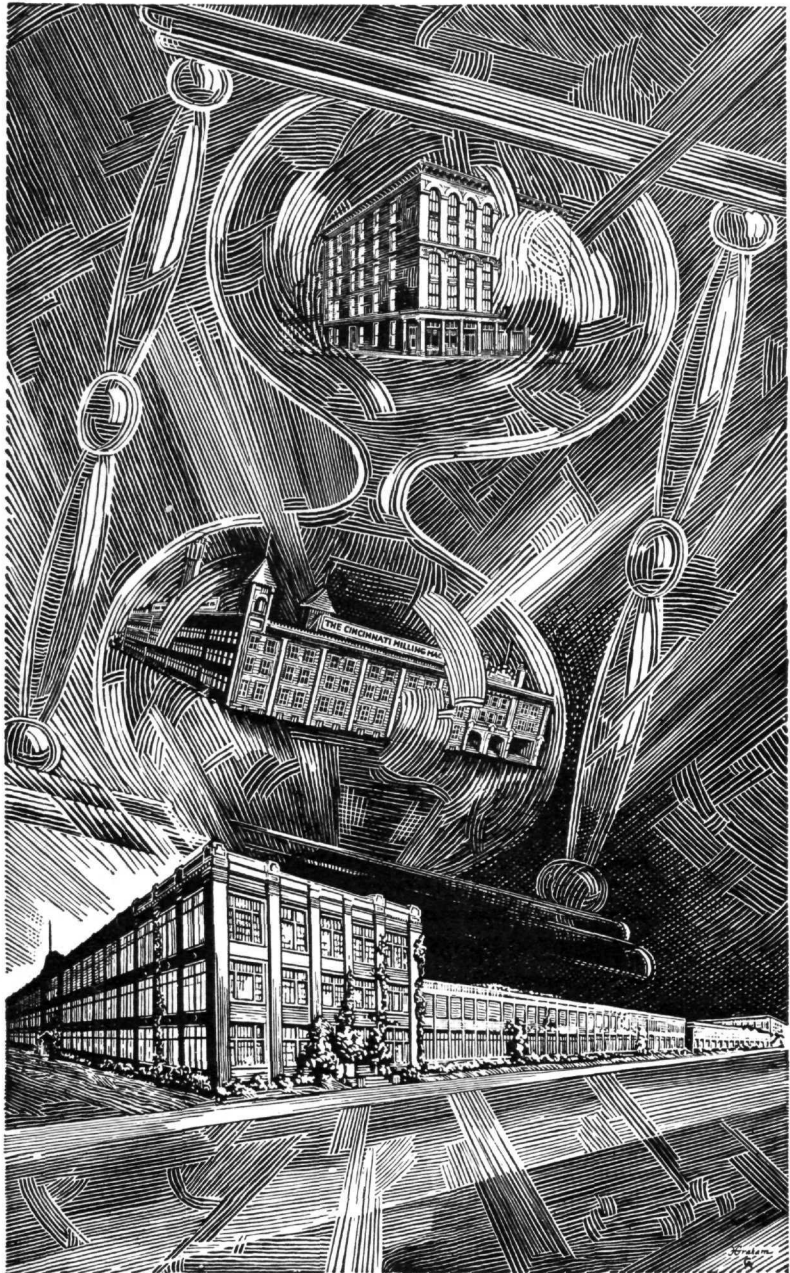


COMBUSTION ENGINEERING CORPORATION

International Combustion Building
200 Madison Avenue, New York

A Subsidiary of
International Combustion Engineering Corporation

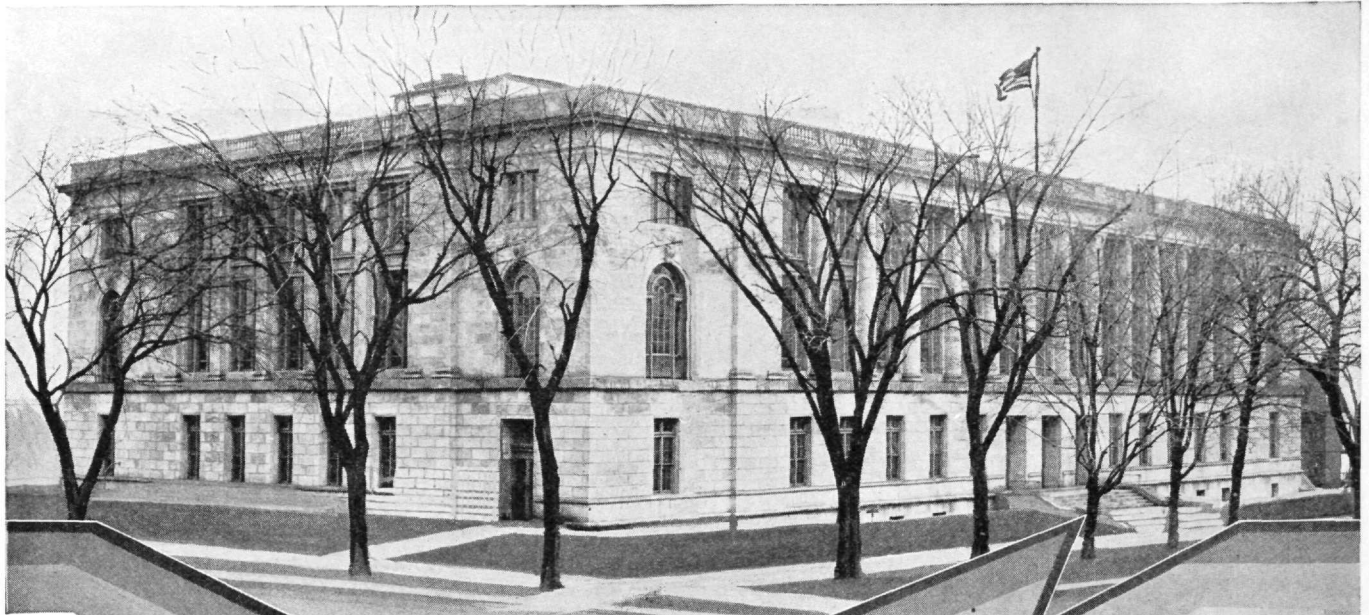
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For the past forty-five years our purpose has been to furnish better, faster milling machines and to give dependable counsel on milling to all industries. The consistent growth of our organization pictorially illustrated above emphasizes the demand made on us for new ideas in milling. You may be interested in seeing these new developments. The doors are open to you.

The Cincinnati Milling Machine Co.

CINCINNATI, OHIO, U. S. A.



Koehring-Mixed Foundation for Federal Building

Probably one of the most interesting and attractive of the federal buildings erected during the last year is the United States Post Office and Court House at Madison, Wisconsin. In addition it is one of the first in the building program resumed since the World War.

Situated in the shadow of the state capitol and only a few hundred feet from Lake Monona, one of the four lakes which surround Madison, the three-story building of Bedford stone has an ideal setting.

Employing the latest methods in the interior transfer of mails the Post Office department arranged the rooms, conveying machinery and platforms to bring about greater ease and speed in the handling of all classes of mail.

In the main lobby, marble slabs cover the walls from the floor to a height of eight feet. Quarter-sawed oak is the interior finish throughout the building.

Despite other unique features found in the Madison Post Office, its foundation of dominant strength concrete is similar to that of other well-known building projects throughout the world — concrete mixed by a Koehring.

The ingredients of concrete are the same in all cases but the Koehring re-mixing action — a fundamental principle of Koehring concrete mixers and pavers — coats every particle of sand and gravel with cement to produce dominant strength concrete.

KOEHRING COMPANY

MILWAUKEE, WISCONSIN

Manufacturers of

Pavers, Mixers—Gasoline Shovels, Pull Shovels, Cranes and Draglines

Division of National Equipment Corporation

"Concrete—Its Manufacture and Use," a complete treatise and handbook on present methods of preparing and handling portland cement concrete, will be gladly sent on request to engineering students, faculty members and others interested.



KOEHRING

THE OHIO STATE ENGINEER

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THE ROYAL YORK HOTEL, TORONTO, CANADA

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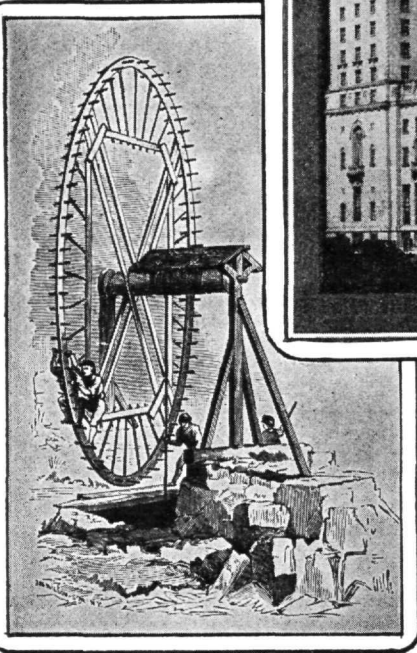
Sproat & Rolph, Associate Architects

The Tallest Building in the British Empire

THE new Royal York Hotel, Toronto, Canada, is the British Empire's tallest building and its largest hotel. This immense structure embodies modern improvements throughout and particularly in regard to Vertical Transportation, which is provided by seventeen elevators of Otis-Fensom manufacture. Ten of these are Otis Signal Control elevators, and the remainder are equipped with Otis "Flying Stop" control.

Here again is found proof of the saying that "most of the world's famous buildings are Otis-equipped."

*Reproduction of
an old wood-cut
showing one of
the early phases
of Vertical
Transportation*



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